

System	Geologic Unit	Lithologic Character	Maximum Thickness (feet)	Water-bearing Character	
Unconsolidated Deposits					
QUATERNARY Pleistocene & Recent (?)	Recent	Flood-basin deposits	Silt, clay, and fine sand, reduced fossiliferous	<50	Poorly permeable, water is of poor quality. Unconfined.
		Younger alluvium	Sand, gravelly, arkosic, silty sand, silt, and clay, weakly oxidized or reduced; poorly developed soil profiles	55	Highly permeable. Unconfined. However, is largely unsaturated and serves as a conduit for recharge to the underlying units.
	Older alluvium	Oxidized	Sand, fine to very coarse, gravel, silt, and clay; well-sorted, crossbedded, arkosic, moderately oxidized; contains well-developed soil profiles and hardpan horizons	600	Highly permeable. Unconfined and semiconfined. Wells yield large quantities of water, which is generally of the calcium or magnesium bicarbonate type. Major aquifer.
		Reduced	Sand, fine to coarse, arkosic, silty sand and clay, sporadically calcareous, fossiliferous; interfingers with lacustrine clay. Unweathered	1,000±	Moderately permeable. Semiconfined and confined. Wells yield large quantities of water, generally of the sodium bicarbonate type. Major aquifer.
TERTIARY & QUATERNARY Pliocene & Pleistocene	Lacustrine and marsh deposits	Silt, clay, and fine sand, reduced, fossiliferous, gypsiferous. In subsurface, lacustrine clay interfingers as tongues with continental and alluvial deposits	3,000±	Poorly permeable. Confined. Water is of poor quality.	
TERTIARY & QUATERNARY (?) Pliocene & Pleistocene (?)	Continental deposits	Oxidized	Silt, sandy, and clay, some sand and gravel, arkosic, oxidized, deeply weathered, calcareous; contains well-developed soil profiles	500	Poorly permeable. Semiconfined. Wells generally have low yields. Water is generally of the sodium bicarbonate type.
		Reduced	Sand, fine- to medium-grained, silt, and clay, arkosic, micaceous, calcareous; interfingers with lacustrine clay	2,000±	Moderately permeable. Semiconfined and confined. Wells yield large quantities of water generally of the sodium bicarbonate type.
Consolidated Rocks					
TERTIARY	Marine rocks	Sandstone, siltstone, and shale	12,000±	Generally do not yield fresh water, contain mostly brackish water.	
PRE-TERTIARY	Basement complex	Metamorphic and igneous rocks		Fractures, faults, and joints locally yield small quantities of water; otherwise virtually impermeable.	

Source: Croft and Sordon, 1968



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GWF Henrietta  
Peaker Project

# GENERALIZED STRATIGRAPHIC COLUMN IN THE GWF HENRIETTA PEAKER PROJECT

Figure  
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